100 DISTRIBUTED NETWORK ENVIRONMENT

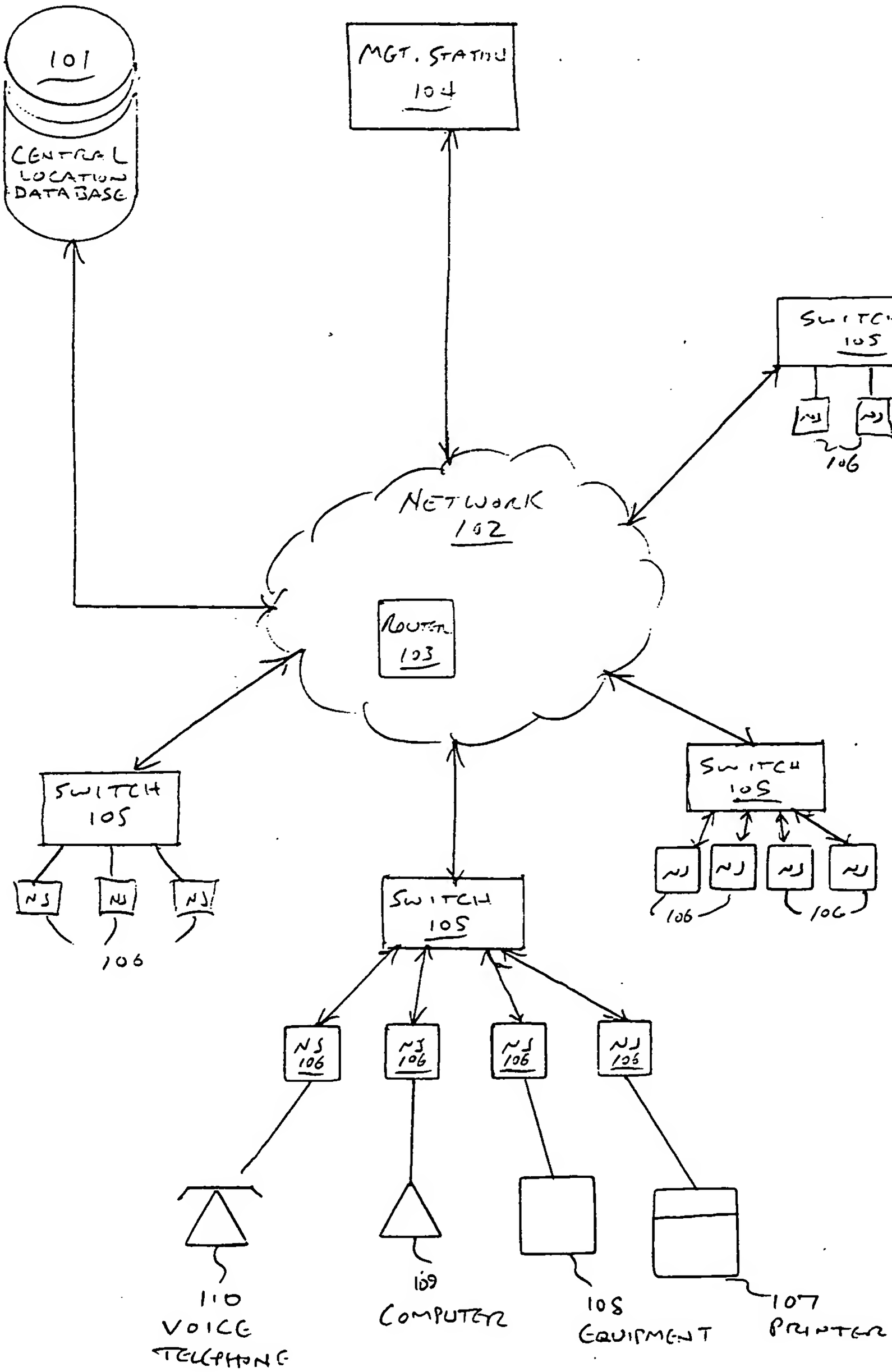

Fig. 1

3COM - 3955	FIG. 2	A. RUBINSTEIN

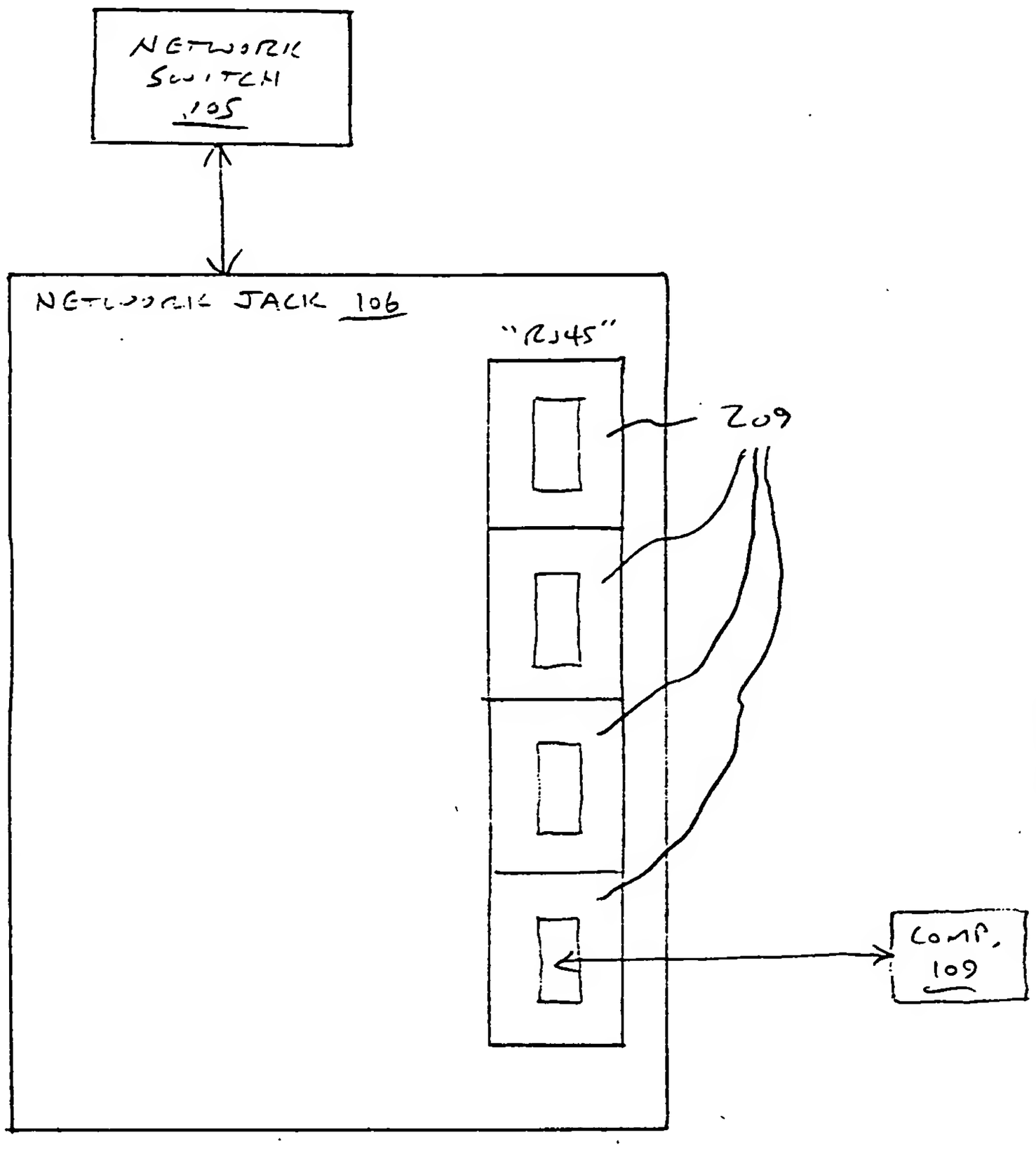

FIG. 2

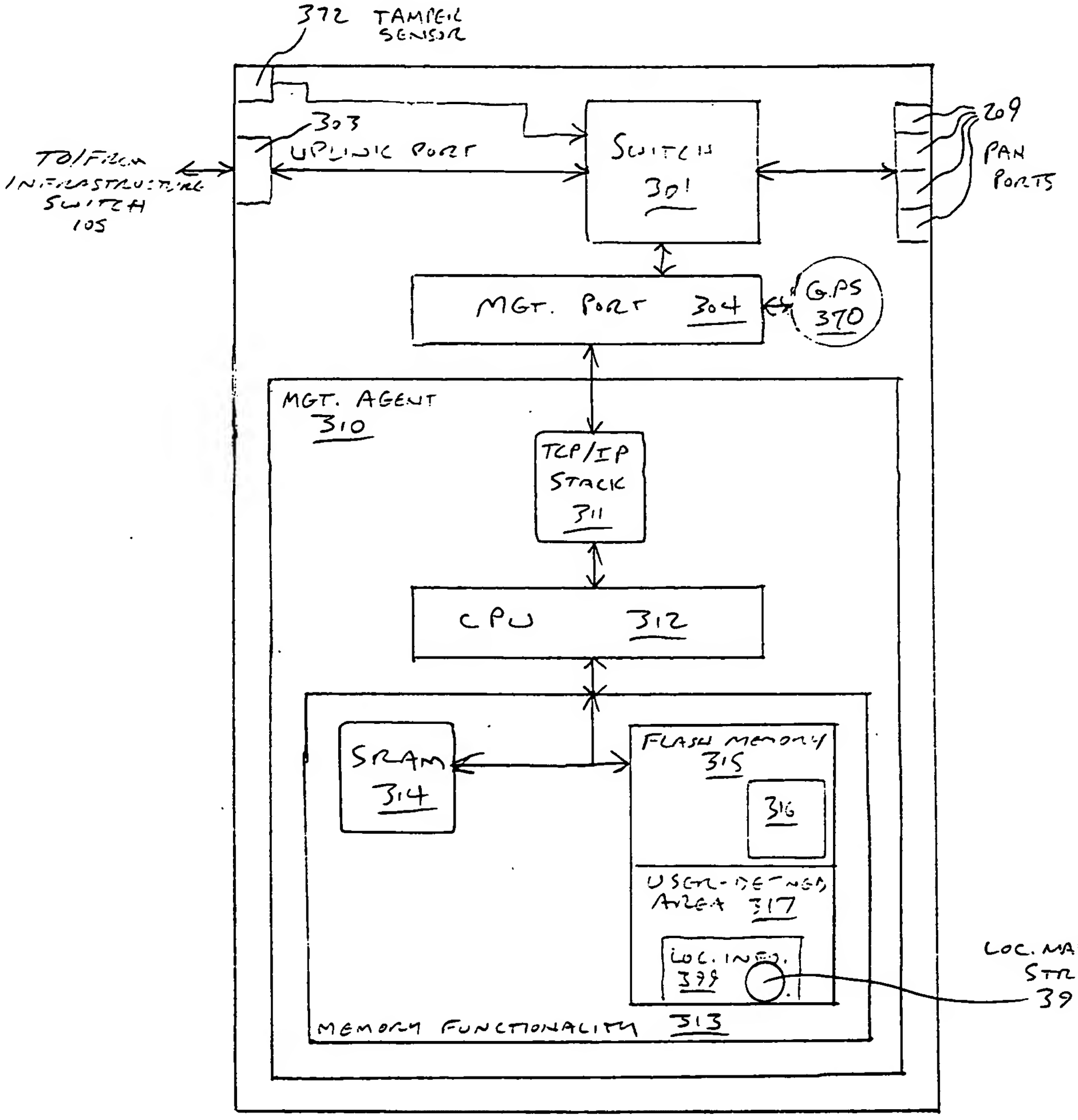

Fig. 3

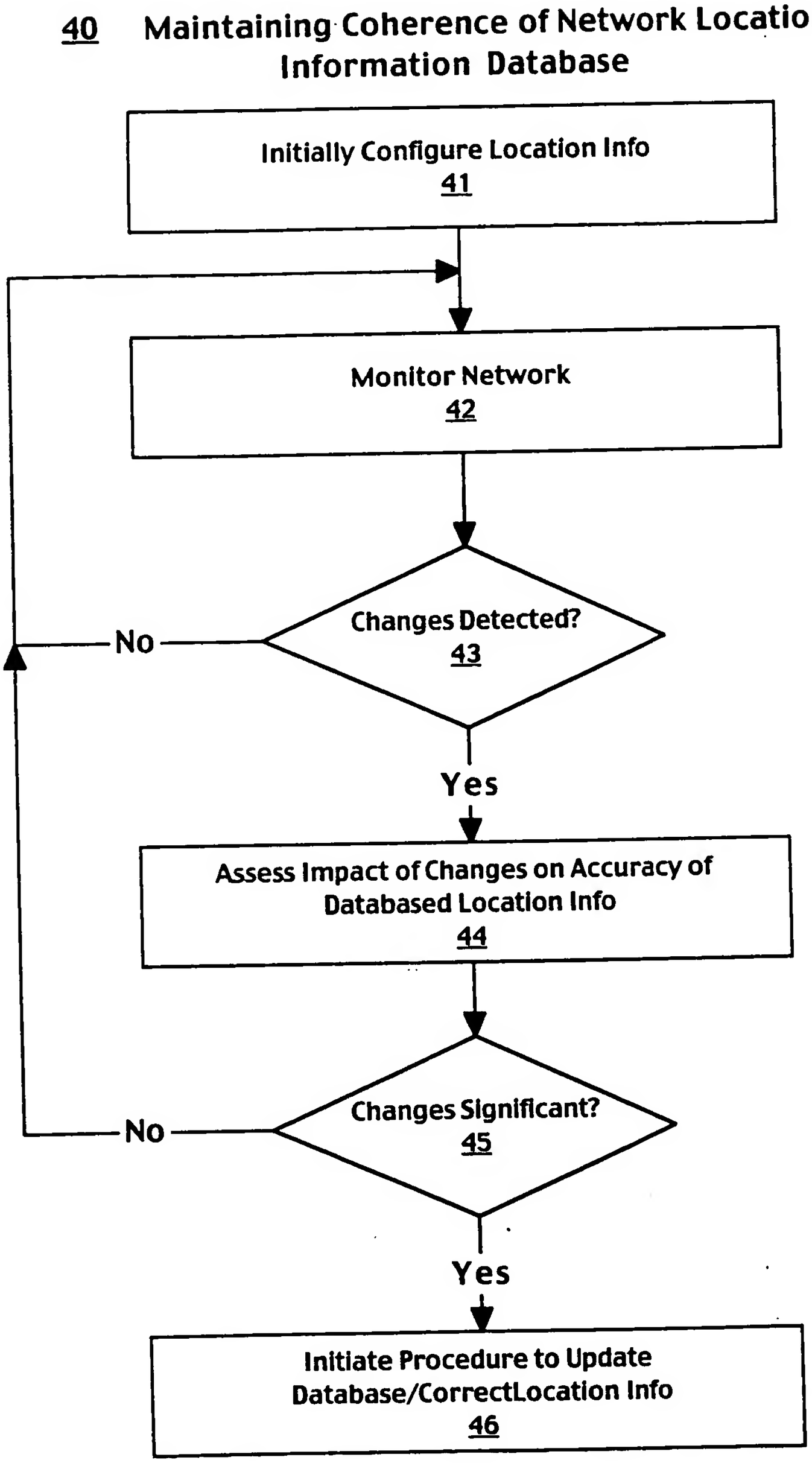
40 Maintaining Coherence of Network Location Information Database
Initially Configure Location Info
41
Monitor Network
42
Changes Detected?
43
No
Yes
Assess Impact of Changes on Accuracy of Databased Location Info
44
Changes Significant?
45
No
Yes
Initiate Procedure to Update Database/CorrectLocation Info
46

Fig. 4

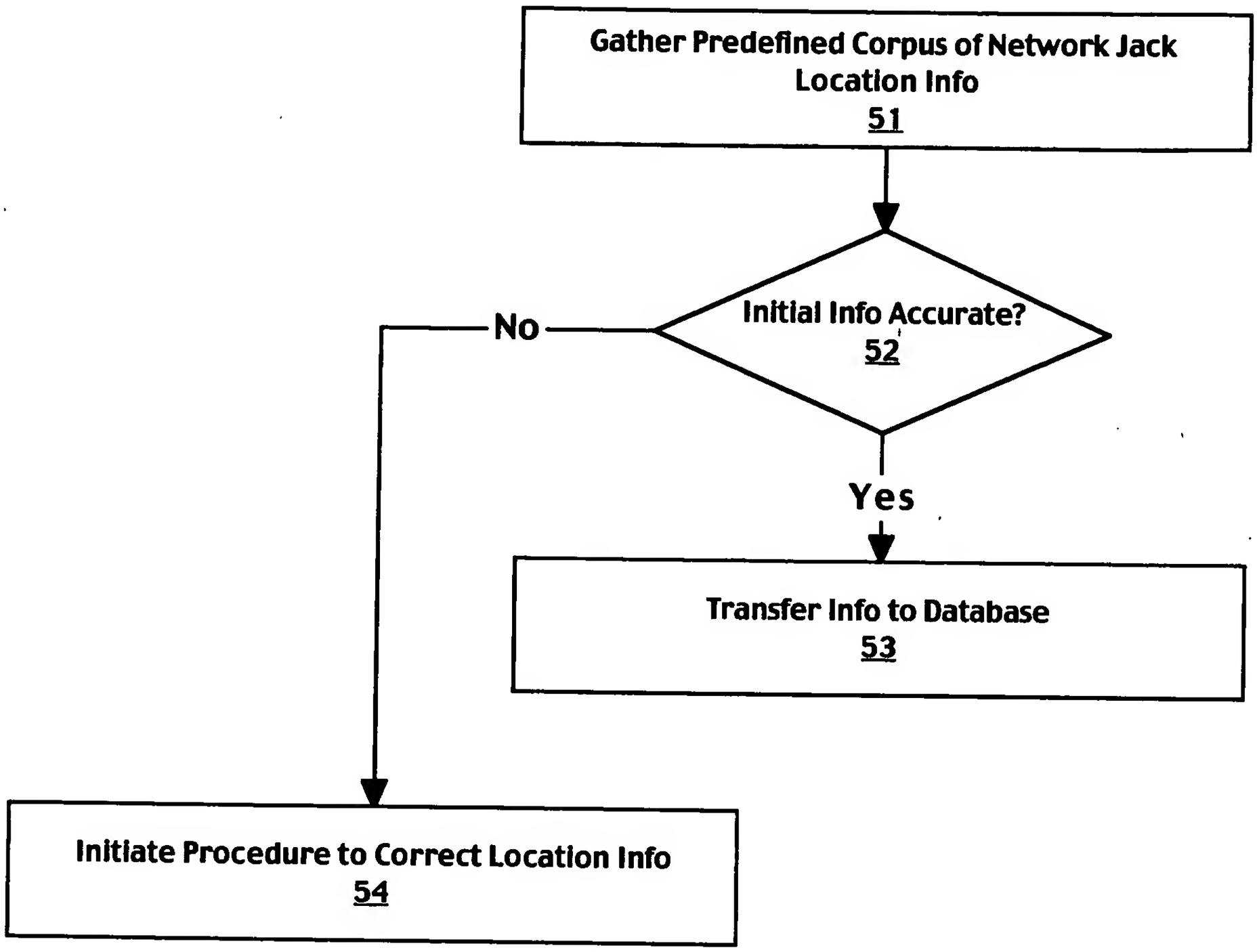
50 Initially Accurately Configuring Network Jack Location Information
Gather Predefined Corpus of Network Jack Location Info
51
Initial Info Accurate?
52
No
Yes
Transfer Info to Database
53
Initiate Procedure to Correct Location Info
54

Fig. 5

60 Detecting Corruption from NJU Lacking Location Info or Having Seemingly New Location Info

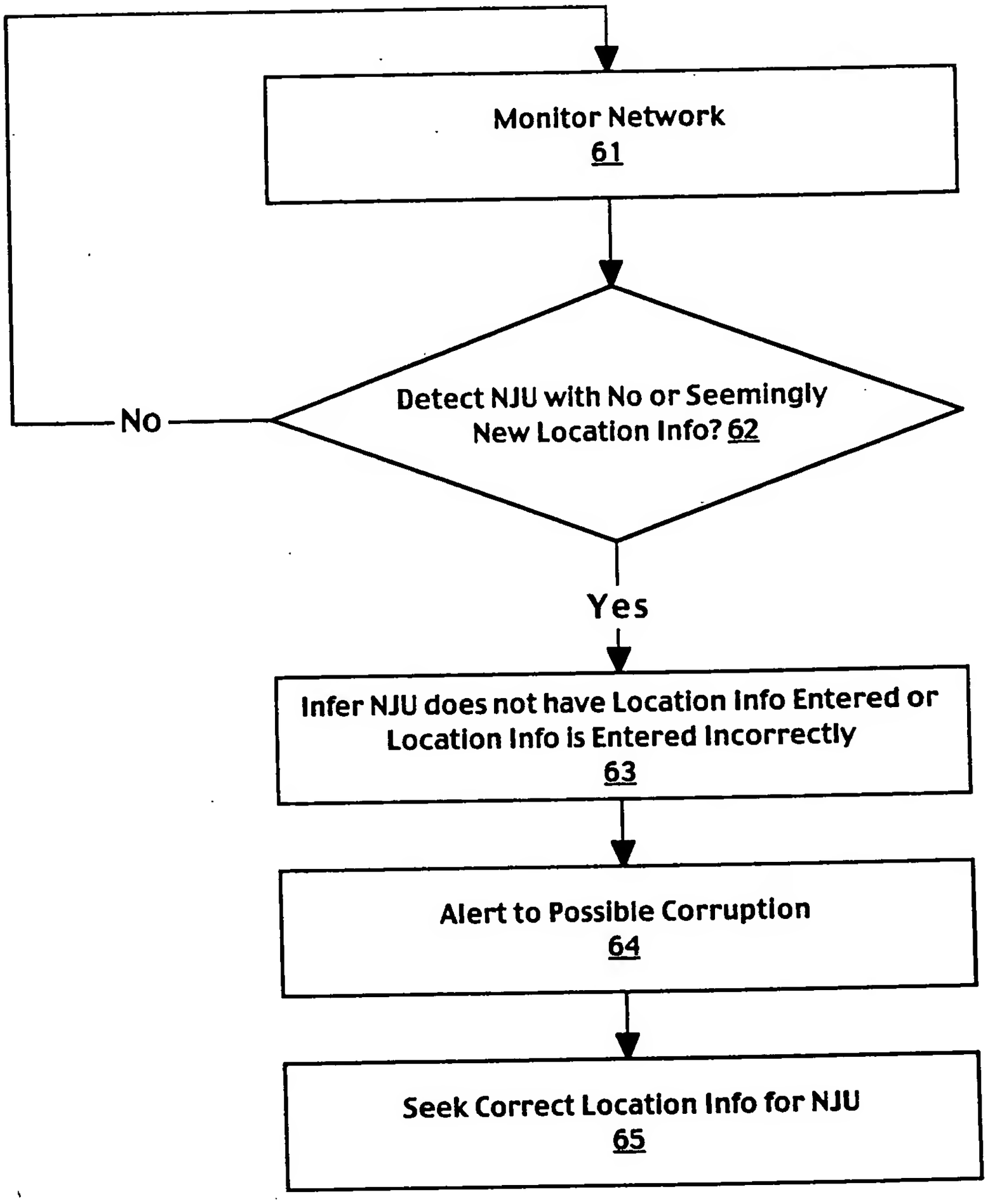

Fig. 6

70 Detecting New Location Mapping Information (Locally Entered)

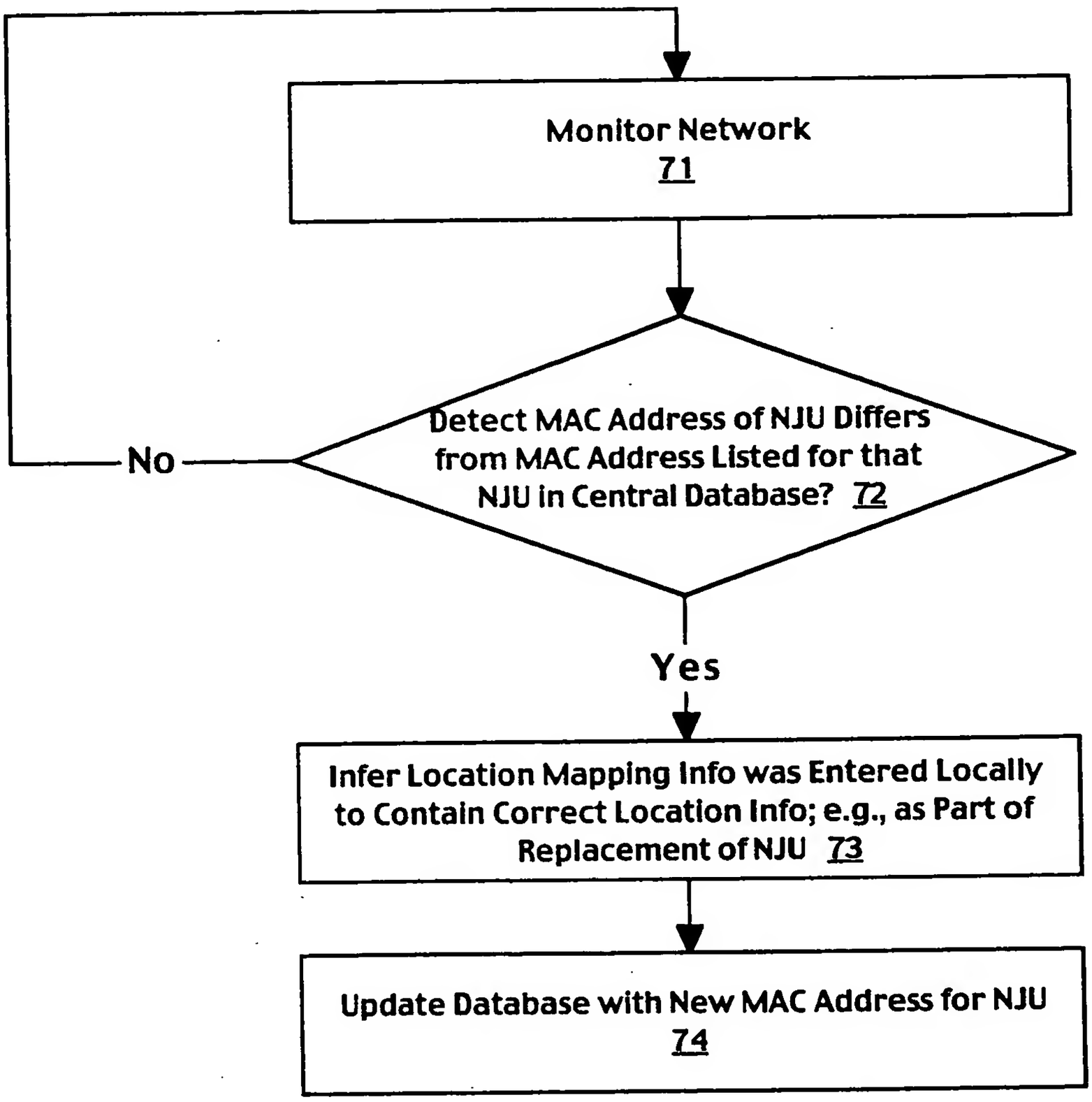

Fig. 7

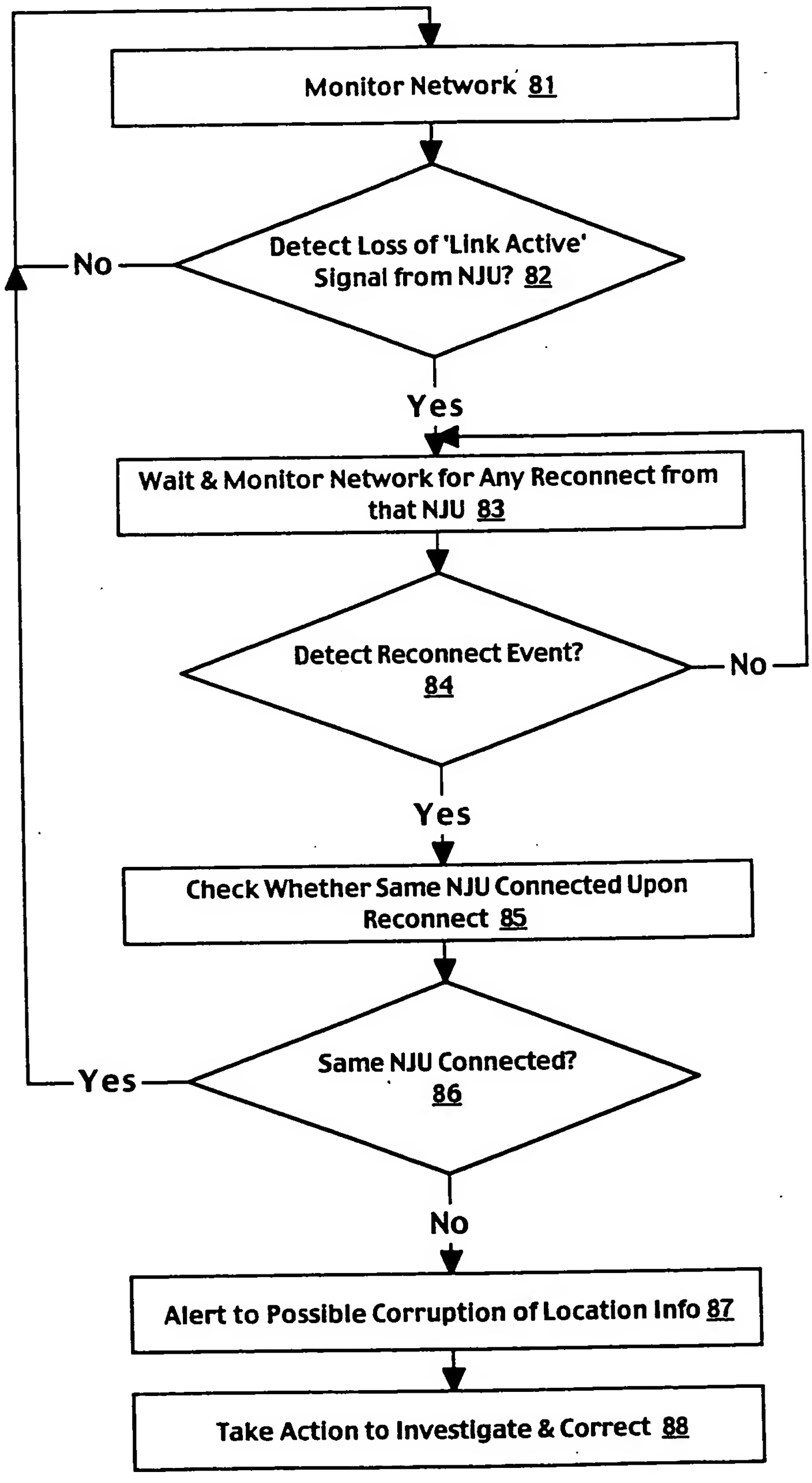
80 Confirm Location Information Upon Disconnect/Reconnect Event
Monitor Network 81
Detect Loss of 'Link Active' Signal from NJU? 82
No
Yes
Wait & Monitor Network for Any Reconnect from that NJU 83
Detect Reconnect Event? 84
No
Yes
Check Whether Same NJU Connected Upon Reconnect 85
Same NJU Connected? 86
Yes
No
Alert to Possible Corruption of Location Info 87
Take Action to Investigate & Correct 88

Fig. 8

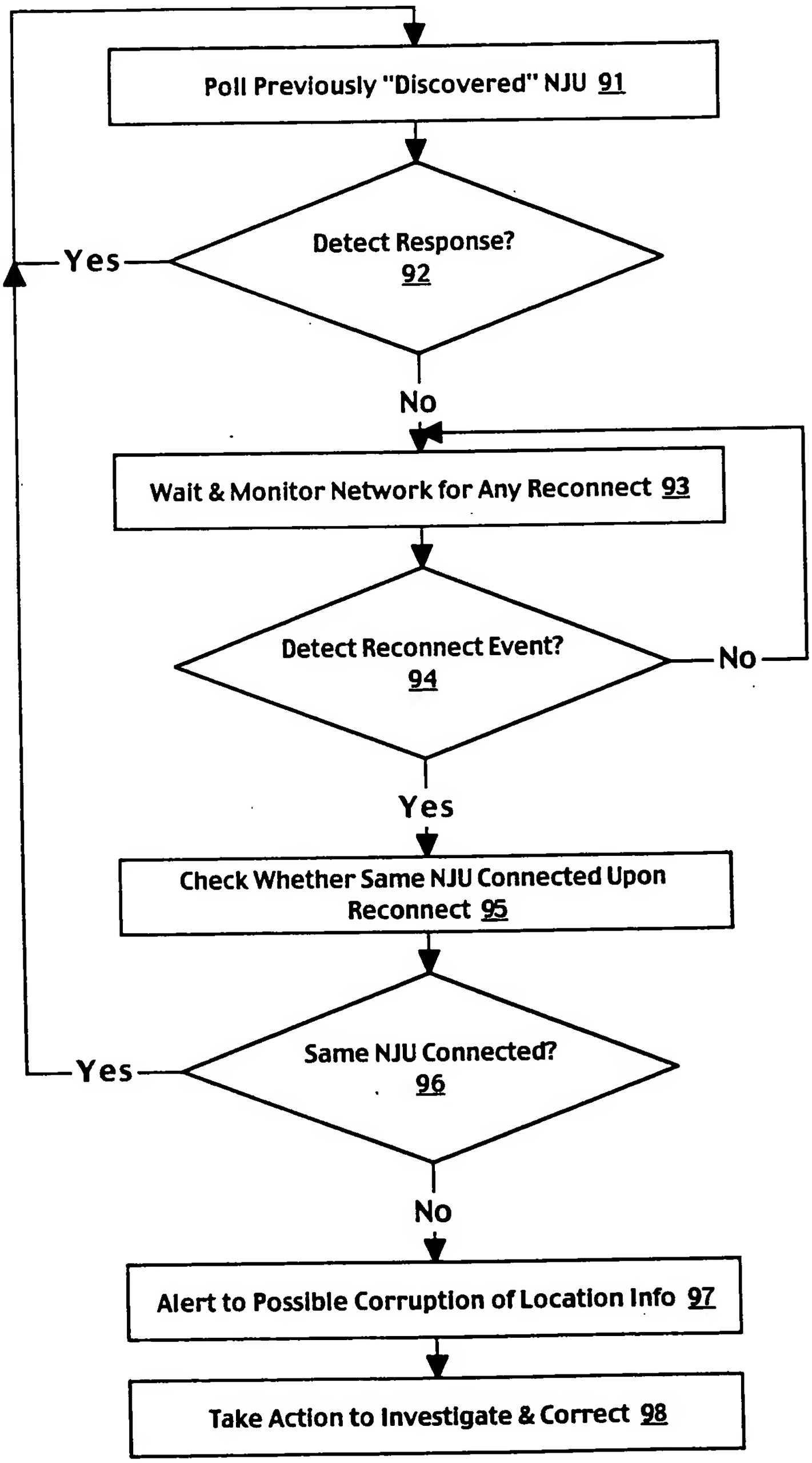
90 Verifying Location Info & Active NJU Status
Poll Previously "Discovered" NJU 91
Detect Response? 92
Yes
No
Wait & Monitor Network for Any Reconnect 93
Detect Reconnect Event? 94
No
Yes
Check Whether Same NJU Connected Upon Reconnect 95
Same NJU Connected? 96
Yes
No
Alert to Possible Corruption of Location Info 97
Take Action to Investigate & Correct 98

Fig. 9

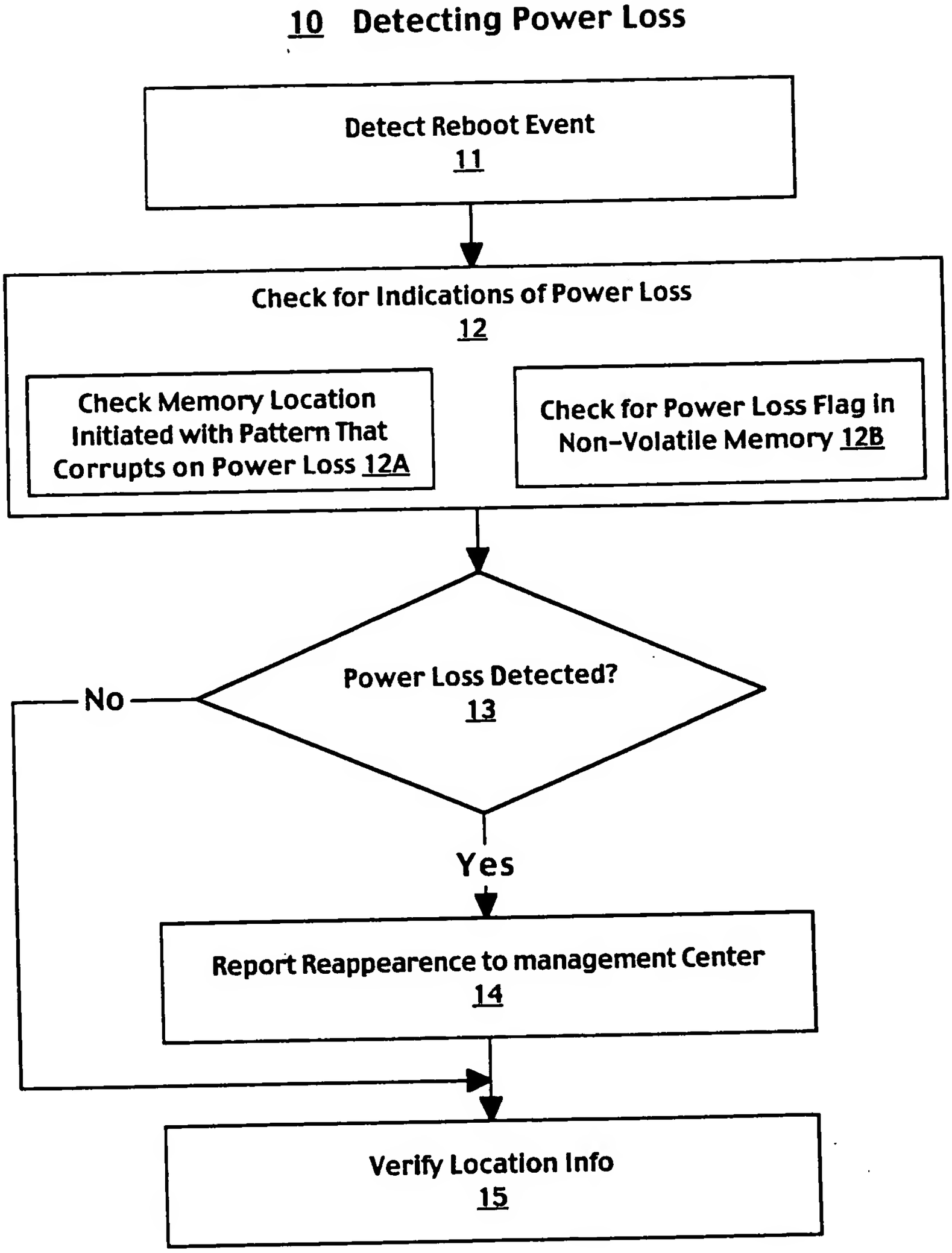
10 Detecting Power Loss
Detect Reboot Event
11
Check for Indications of Power Loss
12
Check Memory Location Initiated with Pattern That Corrupts on Power Loss 12A
Check for Power Loss Flag in Non-Volatile Memory 12B
Power Loss Detected?
13
No
Yes
Report Reappearence to management Center
14
Verify Location Info
15

Fig. 10

1100 Detecting Attempt to Move NJU

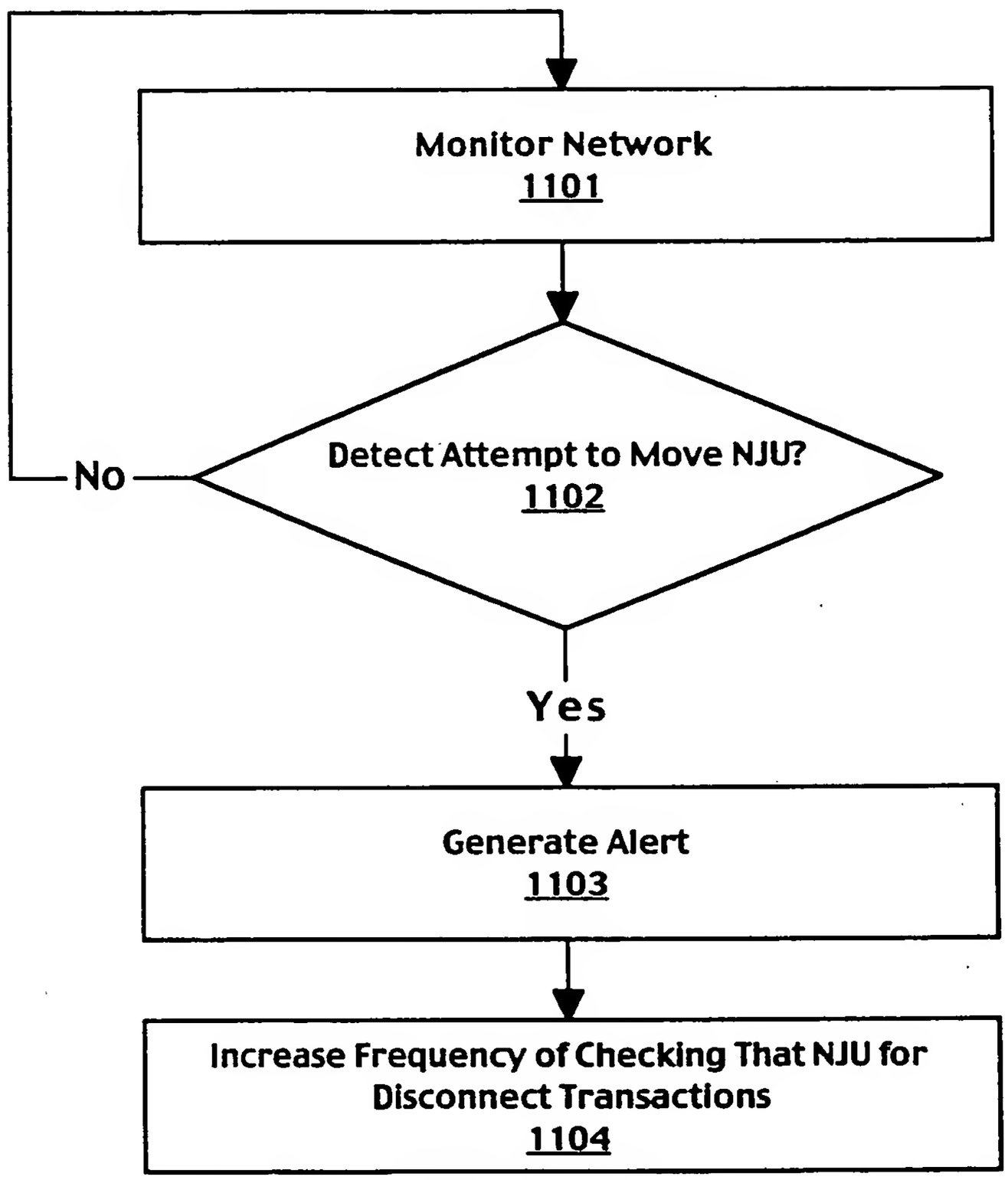

Fig. 11

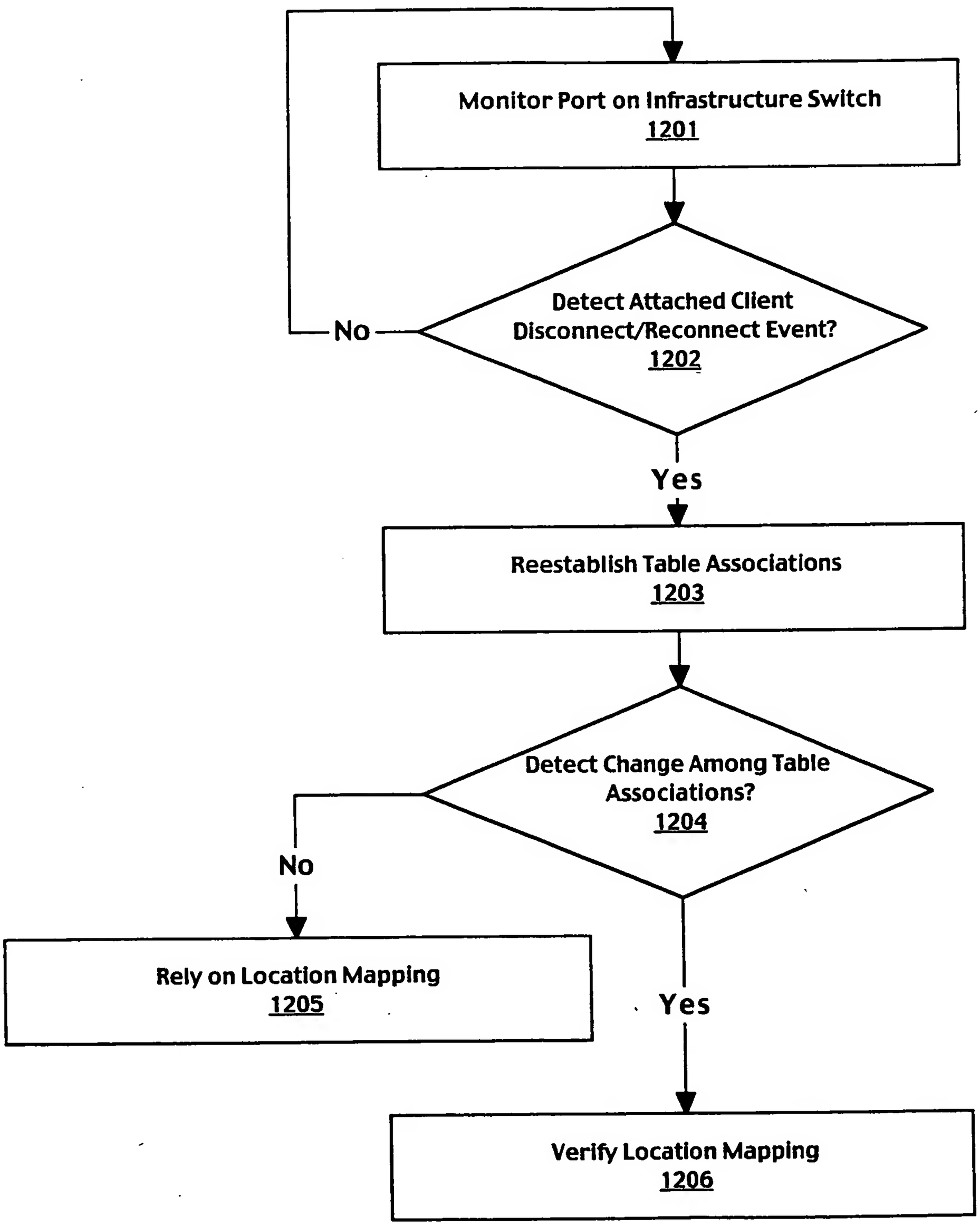
1200 Verifying Location Mapping
Monitor Port on Infrastructure Switch
1201
Detect Attached Client
Disconnect/Reconnect Event?
1202
No
Yes
Reestablish Table Associations
1203
Detect Change Among Table
Associations?
1204
No
Yes
Rely on Location Mapping
1205
Verify Location Mapping
1206

Fig. 12

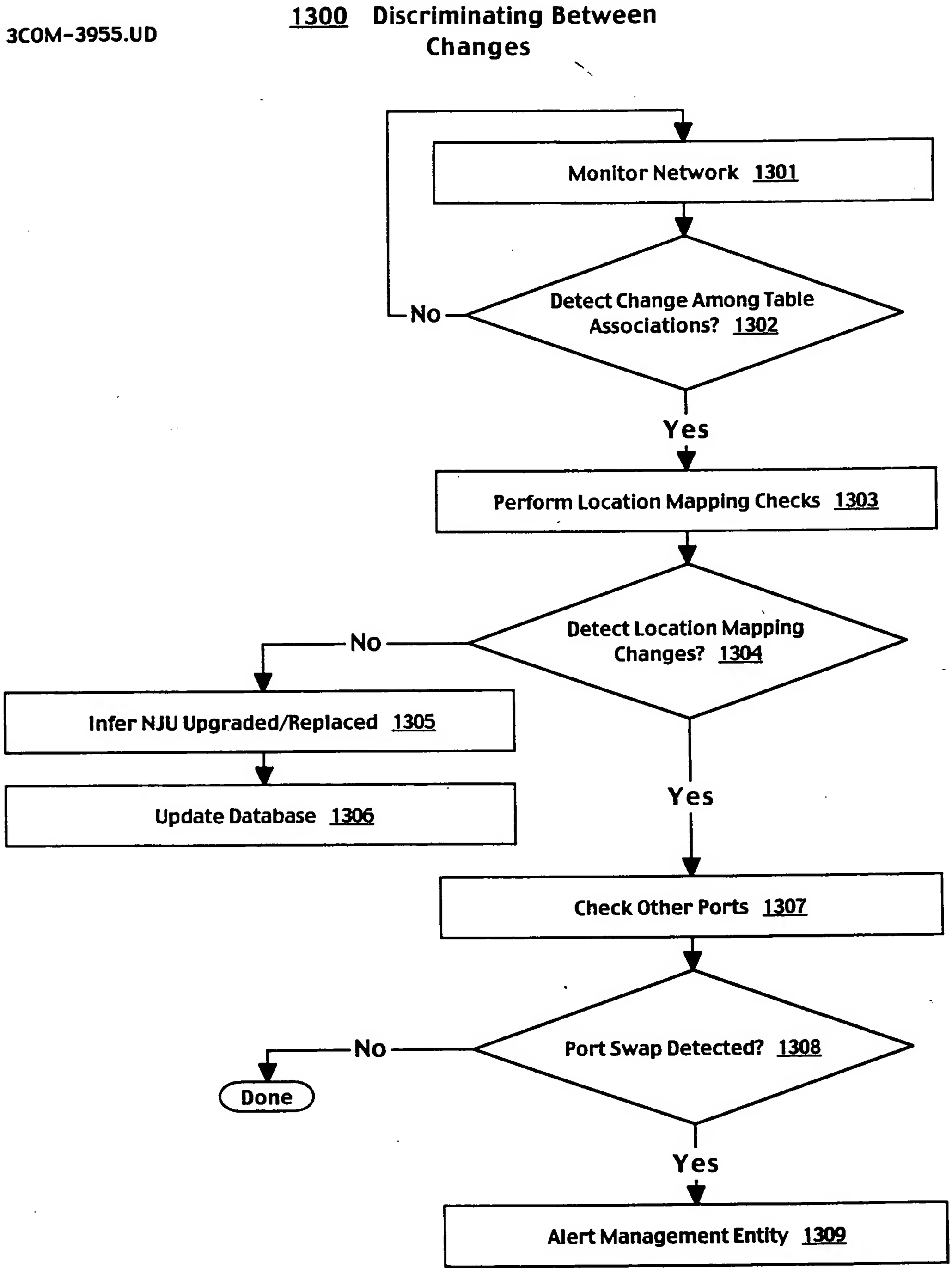
1300 Discriminating Between Changes
Monitor Network 1301
Detect Change Among Table Associations? 1302
No
Yes
Perform Location Mapping Checks 1303
Detect Location Mapping Changes? 1304
No
Yes
Infer NJU Upgraded/Replaced 1305
Update Database 1306
Check Other Ports 1307
Port Swap Detected? 1308
No
Yes
Done
Alert Management Entity 1309

Fig. 13

3COM-3955.UD

1400 Determining Reliability from Outage Duration

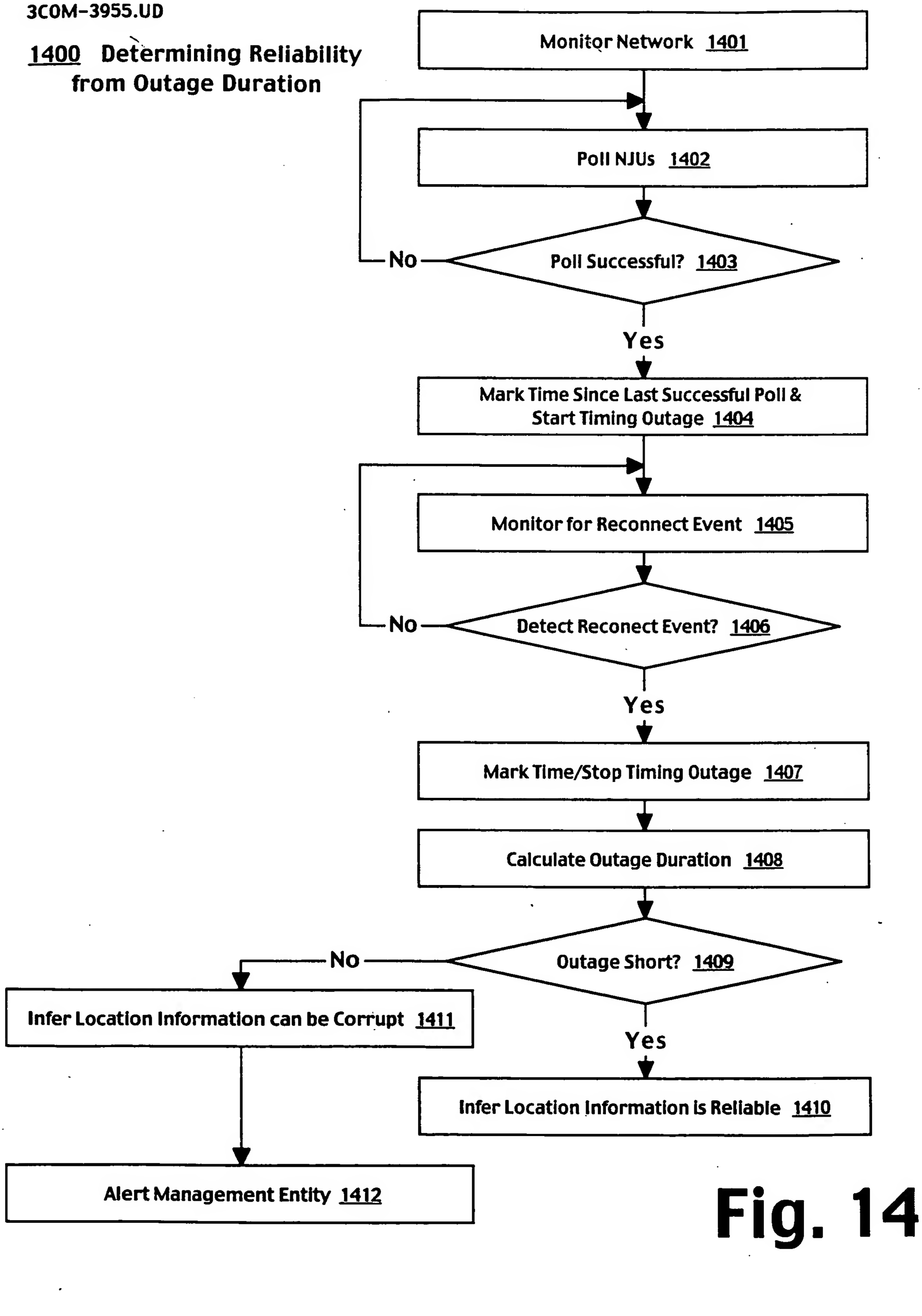

Fig. 14